

1. 1990-1991		2. 1991-1992		3. 1992-1993		4. 1993-1994		5. 1994-1995		6. 1995-1996		7. 1996-1997		8. 1997-1998		9. 1998-1999		10. 1999-2000		11. 2000-2001		12. 2001-2002		13. 2002-2003		14. 2003-2004		15. 2004-2005		16. 2005-2006		17. 2006-2007		18. 2007-2008		19. 2008-2009		20. 2009-2010		21. 2010-2011		22. 2011-2012		23. 2012-2013		24. 2013-2014		25. 2014-2015		26. 2015-2016		27. 2016-2017		28. 2017-2018		29. 2018-2019		30. 2019-2020		31. 2020-2021		32. 2021-2022		33. 2022-2023		34. 2023-2024		35. 2024-2025		36. 2025-2026		37. 2026-2027		38. 2027-2028		39. 2028-2029		40. 2029-2030		41. 2030-2031		42. 2031-2032		43. 2032-2033		44. 2033-2034		45. 2034-2035		46. 2035-2036		47. 2036-2037		48. 2037-2038		49. 2038-2039		50. 2039-2040		51. 2040-2041		52. 2041-2042		53. 2042-2043		54. 2043-2044		55. 2044-2045		56. 2045-2046		57. 2046-2047		58. 2047-2048		59. 2048-2049		60. 2049-2050		61. 2050-2051		62. 2051-2052		63. 2052-2053		64. 2053-2054		65. 2054-2055		66. 2055-2056		67. 2056-2057		68. 2057-2058		69. 2058-2059		70. 2059-2060		71. 2060-2061		72. 2061-2062		73. 2062-2063		74. 2063-2064		75. 2064-2065		76. 2065-2066		77. 2066-2067		78. 2067-2068		79. 2068-2069		80. 2069-2070		81. 2070-2071		82. 2071-2072		83. 2072-2073		84. 2073-2074		85. 2074-2075		86. 2075-2076		87. 2076-2077		88. 2077-2078		89. 2078-2079		90. 2079-2080		91. 2080-2081		92. 2081-2082		93. 2082-2083		94. 2083-2084		95. 2084-2085		96. 2085-2086		97. 2086-2087		98. 2087-2088		99. 2088-2089		100. 2089-2090		101. 2090-2091		102. 2091-2092		103. 2092-2093		104. 2093-2094		105. 2094-2095		106. 2095-2096		107. 2096-2097		108. 2097-2098		109. 2098-2099		110. 2099-2100		111. 2100-2101		112. 2101-2102		113. 2102-2103		114. 2103-2104		115. 2104-2105		116. 2105-2106		117. 2106-2107		118. 2107-2108		119. 2108-2109		120. 2109-2110		121. 2110-2111		122. 2111-2112		123. 2112-2113		124. 2113-2114		125. 2114-2115		126. 2115-2116		127. 2116-2117		128. 2117-2118		129. 2118-2119		130. 2119-2120		131. 2120-2121		132. 2121-2122		133. 2122-2123		134. 2123-2124		135. 2124-2125		136. 2125-2126		137. 2126-2127		138. 2127-2128		139. 2128-2129		140. 2129-2130		141. 2130-2131		142. 2131-2132		143. 2132-2133		144. 2133-2134		145. 2134-2135		146. 2135-2136		147. 2136-2137		148. 2137-2138		149. 2138-2139		150. 2139-2140		151. 2140-2141		152. 2141-2142		153. 2142-2143		154. 2143-2144		155. 2144-2145		156. 2145-2146		157. 2146-2147		158. 2147-2148		159. 2148-2149		160. 2149-2150		161. 2150-2151		162. 2151-2152		163. 2152-2153		164. 2153-2154		165. 2154-2155		166. 2155-2156		167. 2156-2157		168. 2157-2158		169. 2158-2159		170. 2159-2160		171. 2160-2161		172. 2161-2162		173. 2162-2163		174. 2163-2164		175. 2164-2165		176. 2165-2166		177. 2166-2167		178. 2167-2168		179. 2168-2169		180. 2169-2170		181. 2170-2171		182. 2171-2172		1	
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1. A nucleic acid probe comprising a nucleic acid sequence 7 to 500 nucleotide bases in length that specifically binds under selective binding conditions to a nucleic acid sequence comprising at least one variance in a gene selected from the group consisting of Methionine Synthase, CAD protein, Dihydropyrimidine Dehydrogenase, reduced folate carrier (RFC1), Thymidylate synthetase, Ribonucleotide reductase M2 polypeptide, Thymidine phosphorylase, folylpolyglutamate synthetase, methylenetetrahydrofolate reductase, and Cytidine deaminase or a sequence complementary thereto or an RNA equivalent.
2. The probe of claim 1, wherein said probe comprises a nucleic acid sequence 200 nucleotide bases or fewer in length.
3. The probe of claim 1, wherein said nucleic acid sequence is 100 or fewer nucleotide bases in length.
4. The probe of claim 1, wherein said nucleic acid sequence is 25 or fewer nucleotide bases in length.
5. The probe of claim 1, wherein said probe comprises DNA.
6. The probe of claim 1, wherein said probe comprises DNA and at least one nucleic acid analog.
7. The probe of claim 1, wherein said probe comprises peptide nucleic acid (PNA).
8. The probe of claim 1, further comprising a detectable label.
9. The probe of claim 8, wherein said detectable label is a fluorescent label.
10. The probe of claim 1, wherein said at least one variance comprises a variance listed in Table 10.

11. An isolated, purified or enriched nucleic acid sequence of 15 to 500 nucleotides in length, comprising at least one variance, wherein said sequence has the base sequence of a portion of an allele of a gene selected from the group consisting of Methionine Synthase, CAD protein, Dihydropyrimidine Dehydrogenase, reduced folate carrier (RFC1), Thymidylate synthetase, Ribonucleotide reductase M2 polypeptide, Thymidine phosphorylase, folylpolyglutamate synthetase, methylenetetrahydrofolate reductase, and Cytidine deaminase or a sequence complementary thereto.

12. The nucleic acid sequence of claim 11, wherein said nucleic acid sequence is 15 to 100 nucleotide bases in length.

13. The nucleic acid sequence of claim 11, wherein said nucleic acid sequence sequence is 15 to 25 nucleotide bases in length.

14. The nucleic acid sequence of claim 11, wherein said at least one variance comprises a variance listed in Table 10.

15. A method for determining the presence or absence of a variance in a gene selected from the group consisting of Methionine Synthase, CAD protein, Dihydropyrimidine Dehydrogenase, reduced folate carrier (RFC1), Thymidylate synthetase, Ribonucleotide reductase M2 polypeptide, Thymidine phosphorylase, folylpolyglutamate synthetase, methylenetetrahydrofolate reductase, and Cytidine deaminase, comprising contacting at least a portion of said gene or a sequence complementary thereto with a probe as described in claim 1 under selective binding conditions.

16. The method of claim 15, wherein said at least one variance comprises a variance listed in Table 10.